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71 Applicant: **CANON KABUSHIKI KAISHA**
30-2, 3-chome, Shimomaruko,
Ohta-ku
Tokyo (JP)

72 Inventor: **Ujita, Toshihiko, c/o Canon**
Kabushiki Kaisha
3-30-2, Shimomaruko,
Ohta-ku
Tokyo 146 (JP)
Inventor: **Yamakawa, Koji, c/o Canon**
Kabushiki Kaishaha
3-30-2, Shimomaruko,
Ohta-ku
Tokyo 146 (JP)
Inventor: **Takenouchi, Masanori, Canon**
Kabushiki Kaisha
3-30-2, Shimomaruko,
Ohta-ku
Tokyo 146 (JP)
Inventor: **Sugama, Sadayuki, Canon Kabushiki**
Kaisha
3-30-2, Shimomaruko,
Ohta-ku
Tokyo 146 (JP)
Inventor: **Watanabe, Kenjiro Canon Kabushiki**

Kaisha
3-30-2, Shimomaruko,
Ohta-ku
Tokyo 146 (JP)
Inventor: **Osada, Torachika, Canon Kabushiki**
Kaisha
3-30-2, Shimomaruko,
Ohta-ku
Tokyo 146 (JP)
Inventor: **Nakajima, Kazuhiro, Canon**
Kabushiki Kaisha
3-30-2, Shimomaruko,
Ohta-ku
Tokyo 146 (JP)
Inventor: **Tsutsumi, Takayoshi Canon**
Kabushiki Kaisha
3-30-2, Shimomaruko,
Ohta-ku
Tokyo 146 (JP)
Inventor: **Kubota, Hidemi Canon Kabushiki**
Kaisha
3-30-2, Shimomaruko,
Ohta-ku
Tokyo 146 (JP)
Inventor: **Kotaki, Yasuo, Canon Kabushiki**
Kaisha
3-30-2, Shimomaruko,
Ohta-ku
Tokyo 146 (JP)
Inventor: **Tsukuda, Keiichiro, Canon**
Kabushiki Kaisha
3-30-2, Shimomaruko,
Ohta-ku
Tokyo 146 (JP)
Inventor: **Sato, Yohei, Canon Kabushiki**
Kaisha
3-30-2, Shimomaruko,
Ohta-ku
Tokyo 146 (JP)

74 Representative: **Tiedtke, Harro, Dipl.-Ing. et al**
Patentanwaltsbüro
Tiedtke-Bühling-Kinne & Partner
Bavariaring 4
D-80336 München (DE)

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⑤ Liquid storing container for recording apparatus.

⑤ A liquid storing container (303) employable for an ink jet recording apparatus includes a housing (303, 100), a porous ink absorbing member (310, 103) received in the housing (303, 100), and a first filter (308, F) coming in contact with the ink absorbing member (310, 103). The liquid storing container (303) is detachably connected to an ink jet recording head (301, 104, 200) having a second filter (302) disposed in a liquid flow path thereof. The liquid storing container (303) is constructed such that the volume between the first filter (308, F) and the second filter (302), a size of each filter, a condition for compressively receiving the ink absorbing member (310, 103) in the housing (303, 100), and an inner structure of the liquid storing container (303) satisfactorily coincide with predetermined conditions.

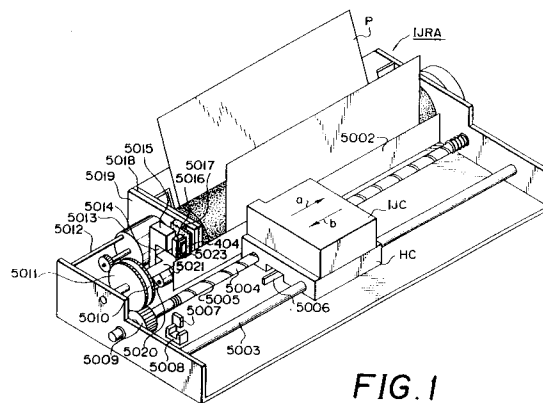


FIG. 1



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EUROPEAN SEARCH REPORT

Application Number
EP 93 11 2227

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.5)
X	EP-A-0 444 654 (CANON K.K.)	1,2, 7-10,26, 29-31	B41J2/175 B41J2/165
Y		3,4,12	
A	* page 15, line 49 - page 17, line 12; figure 17 * ---	11,27,28	
X	EP-A-0 419 192 (CANON K.K.)	12,32,37	
A	* column 12, line 25 - line 40; figure 1 * * column 5, line 4 - line 33; figure 12F * * column 15; figure 8 * ---	15,18	
Y	PATENT ABSTRACTS OF JAPAN vol. 009, no. 300 (M-433) 27 November 1985 & JP-A-60 137 656 (CANON K.K.) 22 July 1985 * abstract *	3,4	
A	---		
A	EP-A-0 496 620 (CANON K.K.) * column 11, line 35 - column 12, line 23; figure 13 *	3	TECHNICAL FIELDS SEARCHED (Int.Cl.5)
A	---		B41J
A	PATENT ABSTRACTS OF JAPAN vol. 13, no. 473 (M-884) (3821) 26 October 1989 & JP-A-01 186 331 (RICOH CO LTD) 25 July 1989 * abstract *	28	
A	---		
A	PATENT ABSTRACTS OF JAPAN vol. 14, no. 198 (M-965) (4141) 23 April 1990 & JP-A-02 039 945 (CANON K.K.) 8 February 1990 * abstract *	13	

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The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 27 May 1994	Examiner De Groot, R
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			



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CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

- ☐ All claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for all claims.
- ☐ Only part of the claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claims:
- ☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirement of unity of invention and relates to several inventions or groups of inventions,

namely:

see sheet -B-

- ☒ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims
- ☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
- ☐ None of the further search fees has been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:



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EUROPEAN SEARCH REPORT

Application Number
EP 93 11 2227

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.5)
Y	PATENT ABSTRACTS OF JAPAN vol. 12, no. 227 (M-713) (3074) 28 June 1988 & JP-A-63 022 653 (CANON) 30 January 1988 * abstract * -----	12	
			TECHNICAL FIELDS SEARCHED (Int.Cl.5)
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 27 May 1994	Examiner De Groot, R
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			



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LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirement of unity of invention and relates to several inventions or groups of inventions, namely:

1. Claims 1,2,7-10,26-31 and 11 (partially):
Means to reduce the volume to be sucked off
during recovery
2. Claims 3-6,12-17,37-44 and 11 (partially):
Means to make print head and ink tank dismountable
from each other
3. Claims 18-25,47-60,61:
Ink transport by capillary action
4. Claims 32-36,45,46:
Air venting